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TURBLES PRODUCTION IMPROVES; METAL SAVING EMPRASIZED

MEW METHODS SPEED OUTPUT, SAVE STEEL -- Leningradskaya Fravda, No 230, 29 Sep 49

Because of the need for a large quantity of turbine vanes, and the labor-consuming methods involved in their manufacture, the output of steam turbines will be limited unless the technological processes are changed.

Technologist Petrov and Engineer Smirnov, working in the Technical Division of the Plant imeni Stalin, have developed a new method which cuts labor consumption 40 percent and effects a great saving in valuable alloy steel. Petrov is at present working on a method for converting old methods of vane manufacture to stamping.

One brigade, working to decrease the cycle in machining rotors, has found that using three rests on a machine tool, working simultaneously, doubles the speed in this operation.

Welded diaphragms for small turbines have been recently perfected at the plant. They are of exceptional quality, and have already saved the state 200,000 rubles. They are being introduced now for use in high-powered turbines. In the manufacture of these diaphragms alloyed steel consumption has been cut by 4.5 tons for each turbine, and labor consumption reduced 6-7 times. Diaphragm stability has been doubled.

The Technical Division, together with the tool shop, has built a new-type cutter with curvilinear face and a chip deflector. Two hundred experimental cutters were tested in all shops of the plant.

TURBINE-BUILDERS REPORT SUCCESSES -- Leningradskaya Pravda, No 233, 2 Oct 49

Turbine Shop No 6 of the Mevskiy Plant imeni Lenin has just completed two large machines -- a turbo-blower and a steam turbine. Workers of another turbine shop have completed the booster and drive turbine for an exhaust-fan unit which they built a short time ago. The rate of machining rotor shafts for turbo-blowers and turbines has been increased from 80 to 230 meters per minute.

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MAKE NEW TURBINE FROM SAVED METAL -- Trud, No 218, 15 Sep 49

The "lenstankolit" Plant, Leningrad, has completed a cylinder for a high-pressure turbine and has shipped it to the Plant imeni Stalin. The cylinder is the third which the plant has made from metal saved by means of relucing the overflow in pouring and by other technological innovations. Weighing 27 tons, the cylinders are the largest castings made by the plant this year. The plant expects to complete the fourth cylinder from saved metal for the Plant imeni Stalin by 15 October.

CRITICIZES PLANT LAB, DINECTOR -- Leningradskaya Pravda, No 208, 3 Sep 49

Research in the laboratories of the Plant imeni Stalin has shed light on possibilities of using heat-resistant austerite steels for high-pressure turbines. Substitutes have been found for bronze of high tin content, and for babbit. These are now being tested.

Nevertheless, the laboratories are not playing the role they should. More space is needed, as well as more skilled and semiskilled workers. Smelting units, large metal-microscopes and calorimeters are lacking. There is not sufficient equipment for experimentation in creeping of metal.

The remedying of these shortcomings is within the province of the plant, and it is clear that Director Kozharin and Chief Engineer Bushuyev are not taking appropriate measures to remedy the situation. The party committee has also been very lax in doing its job.

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